

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/083,336
Source: Date Processed by STIC:	01PE 3/14/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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 TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
 FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

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	Raw Sequence Listing	Error S
ERROR DETECTED	SUGGESTED CORRECTION	SE

	1. 1092 221
ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/083,336
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8 Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11 Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.
	AMC/MH - Biotechnology Systems Branch - 08/21/2001





OIPE

Does Not Comply Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/083,336

DATE: 03/14/2002

TIME: 12:14:28

Error on P. 7

Input Set : A:\Ricin.app

Output Set: N:\CRF3\03142002\J083336.raw

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3 <110> APPLICANT: Olson, Mark A
             Millard, Charles B
             Byrne, Michael P
              Wannemacher, Robert W
      6
             LeClaire, Ross D
      9 <120> TITLE OF INVENTION: Ricin Vaccine and Methods of Making and Using Thereof
     11 <130> FILE REFERENCE: P67452US0 (RIID 01-58)
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/083,336
C--> 14 <141> CURRENT FILING DATE: 2002-02-27
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     38 Gly Arg Leu Thr Thr Gly Ala Asp Val Arg His Glu Ile Pro Val Leu
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     44 Leu Ser Asn His Ala Glu Leu Ser Val Thr Leu Ala Leu Asp Val Thr
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     47 Asn Ala Tyr Val Val Gly Tyr Arg Ala Gly Asn Ser Ala Tyr Phe Phe
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     50 His Pro Asp Asn Gln Glu Asp Ala Glu Ala Ile Thr His Leu Phe Thr
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     53 Asp Val Gln Asn Arg Tyr Thr Phe Ala Phe Gly Gly Asn Tyr Asp Arg
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RAW SEQUENCE LISTING DATE: 03/14/2002 PATENT APPLICATION: US/10/083,336 TIME: 12:14:28

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11	4 40	_				47	'n				4/	2				400
11	6 Gl	u Ly	s Al	a Gl	u Gl	n Gl	n Tr	p Al	a Le	u Ty	r Al	a As	ры	у зе	49	e Arg
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11	9 Pr	o Gl	n Gl	n As	n Ar	g As	sp As	sn Cy	s Le	u Th	r se	er As	p se	1 AS 51	υ 11 ττ.	e Arg
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12	5 Ar	g Tr	р Ме	t Ph	e Ly	s As	sn As	sp Gl	y Th	ır II	.е ье	u As	n Le	u iy	I se.	r Gly
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12	8 Le	u Va	ıl Le	eu As	sp Va	ıl Aı	g Al	la Se	er As	p Pr	o Se	er Le	uьy	s Gl	11 TT	e Ile 560
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13	1 Le	u Ty	r Pr	o Le	eu Hi	s G	Ly As	sp Pr	o As	n Gl	n II	.e Tr	ъ ге	u Pr	о те	u Phe 5
13		_			56	55				57	0				57	J
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DATE: 03/14/2002 RAW SEQUENCE LISTING TIME: 12:14:28 PATENT APPLICATION: US/10/083,336

Input Set : A:\Ricin.app
Output Set: N:\CRF3\03142002\J083336.raw

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150 Asp Asi	35	110	1		_1	40	-		ب		45		_	_
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154 50 156 Gly Arc	LOU	Thr	Thr	Glv	Ala	Asp	Val	Arg	His	Glu	Ile	Pro	Val	Leu
157 65 159 Pro As:	, Ara	Val	Glv	Leu	Pro	Ile	Asn	Gln	Arg	Phe	Ile	Leu	Val	GIu
160 162 Leu Se	a hen	иіс	Ala	Glu	Leu	Ser	Val	Thr	Leu	Ala	Leu	Asp	Val	Thr
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166 168 His Pr	Aen TIJ	Asn	Gln	Glu	Asp	Ala	Glu	Ala	Ile	Thr	His	Leu	Phe	Thr
168 HIS PI) Keb	ASII	0		135			•		140				_
169 13 171 Asp Va	J 1 Gln	Δsn	Arσ	Tvr	Thr	Phe	Ala	Phe	Gly	Gly	Asn	Tyr	Asp	Arg
172 145 174 Leu Gl	ı Gln	T.em	Ala	Glv	Asn	Leu	Arg	Glu	Asn	Ile	Glu	Leu	Gly	Asn
	u Gin	ПСи	165	1				170					175	
175 177 Gly Pr	o T.e.ii													
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100 /0115	LENGT	H: 1	98											
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183 <212> 184 <213> 186 <400> 187 Ile Ph 188 1 190 Thr Va 191 193 Thr Th 194 196 Val G 197 199 His A 200 65 202 Val Va 203 205 Asn G 206 208 Asn A 209 211 Leu A	LENGT TYPE: ORGAN SEQUE e Pro 1 Glu ir Glu i	PH: 1' PRT ISM: ISM: ISM: PNCE: PNCE	Ricc 3 Gln 5 Tyr Asp Ile Ser Arc 83 Ala	Tyr Thr Val Asn Val Asn Ala Glu Arg	Pro Asn Arg Gln 55 Thr Gly Ala A Phe 135 A Leu	Phe His 40 Arg	Ile 25 Glu Phe Ala Ser 105 Gly Gly	Arg	Ala Pro Leu Asp 75 Tyr Di Leu Tyr	Value	Arg	Gly 30 Pro Leu Asr Asr 110 Leu Gran Gran Gran Gran Gran Gran Gran Gran	Arg Asn Asn Ala Pro 95 Val O 11 Glu	Leu Arg Asn Tyr 80 Asp Gln Gln Leu





DATE: 03/14/2002 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/083,336 TIME: 12:14:28

Input Set : A:\Ricin.app
Output Set: N:\CRF3\03142002\J083336.raw

217 Leu Pro Thr Leu	Ala Ara	Ser Ph	ne Ile i	Ile Cy:	s Ile	Gln N	Met :	Ile	Ser
218 220 Glu Ala Ala Arg	Phe Gln	Tvr I	le Glu	Gly Gl	u Met	Arg :	Thr A	Arg	Ile
	The out	- 1	185			-	190		
221 180 223 Arg Tyr Asn Arg	Ara Ser								
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234 1 236 Thr Val Gln Ser	Tyr Thr	Asn P	he Ile	Arg Al	a Val	Arg	ету.	AIG	rea
237 20 239 Thr Val Leu Pro	Asn Arg	Val G	ly Leu	Pro II	e Asn	GIII .	AIG	PHE	116
240 35 242 Leu Val Glu Leu	Ser Asn	His A	la Glu	Leu Se	r var	1 11T	пеа	AIu	ПСи
243 50 245 Asp Val Thr Asn	Ala Tyr	Val V	al Gly	TYL AL	.g A1a '5	GLY	110		80
246 65 248 Tyr Phe Phe His	Pro Asp	Asn G	In Gru	90	a Gru	1114		95	
249 251 Leu Phe Thr Asp									
		ASII A	105	1111 11	10		110	_	
252 100 254 Tyr Asp Arg Leu	01 Cln	TOU A	la Glv	Asn Le	eu Arg	Glu	Asn	Ile	Glu
255 115 257 Leu Gly Asn Gly	nwo Teu	Glu G	:lu Ala	Ile Se	er Ala	Leu	Tyr	Tyr	\mathtt{Tyr}
258 130 260 Ser Thr Gly Gly	Thr Gln	Leu P	ro Thr	Leu A	la Arg	Ser	Phe	Ile	Ile
261 145 263 Cys Ile Gln Met	ile Ser	Glu A	ala Ala	Arg Pl	he Gln	Tyr	Ile	Glu	Glà
264	165			1/0				175	
266 Glu Met Arg Thi	Arg Ile	Arg I	Tyr Asn	Arg A	rg Ser				
267 180)		185						,
270 <210> SEQ ID NO									
271 <211> LENGTH:	199								
272 <212> TYPE: PR	Г								
273 <213> ORGANISM	: Ricinu's	commu	ınis						
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275 <400> SEQUENCE 276 Met Ile Phe Pro	o Lys Glr	Tyr I	Pro Ile	Ile A	sn Phe	1111	1111	15	Orj
277 1 279 Ala Thr Val Gl	n Ser Tyr	Thr A	Asn Phe	IIe A	rg Ala	Val	30	O T J	
280 2 282 Leu Thr Thr Gl	y Ala Asp	val i	Arg His	GIU I	Te bio	45	LCu		
283 35 285 Arg Val Gly Le	u Pro Ile	Asn (GIN Arg	Fue T	.те пео				
286 50 288 Asn His Ala Gl	u Leu Sei	val '	Tur ren	nia L	ica mor				





DATE: 03/14/2002 RAW SEQUENCE LISTING TIME: 12:14:28 PATENT APPLICATION: US/10/083,336

Input Set : A:\Ricin.app
Output Set: N:\CRF3\03142002\J083336.raw

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289	65				_	70	» 1 n	C117	λcn	Car	Δla	Tvr	Phe	Phe	His	Pro
289 291 :	Гуr	Val	Val	Gly	Tyr	Arg	Ala	GTĀ	ASII	90	AIG	- 1 -	1110		95	
292					85	_			-1-	7U	TI - C	T ON	Dha	Thr		Va l
292 294 <i>i</i>	Asp	Asn	Gln	Glu	Asp	Ala	Glu	Ala	ire	THE	HIS	Бец	FIIC	110	p	,
				100					1 () -3							
295 297 (Gln	Asn.	Arg	Tyr	Thr	Phe	Ala	Phe	Gly	GTA	Asn	ryr	ASP	Arg	Leu	GIU
			115					120					123			
298 300 (Gln	Leu	Ala	Gly	Asn	Leu	Arg	Glu	Asn	Ile	Glu	Leu	Gly	Asn	GIA	Pro
		1 2 0					1 3 5					140				
301	T OU	Glu	Glu	Ala	Tle	Ser	Ala	Leu	Tyr	Tyr	Tyr	Ser	Thr	Gly	Gly	Thr
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304 306	145		D	mhm	T OU	Λla	Δra	Ser	Phe	Ile	Ile	Cys	Ile	Gln	Met	Ile
306	Gln	Leu	Pro	THE	Leu	Ala	пта	501	1 .10	170		-			175	
307				_	165	1	a1	m	т10	Clu	Glv	Glu	Met	Ara	Thr	Arq
309	Ser	Glu	Ala	Ala	Arg	Pne	GIII	TAT	116	GIU	GLY	O L u		190		-
310				180					185					1,00		
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313		•	195													
	<210	0> S	EO I	ON C	: 6											
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				MOTE.	_											
321	< 40	U > S	FOOF	NCE: Pro	Tria	Cln	ጥህዮ	Pro	Tle	Tle	Asn	Phe	Thr	Thr	Ala	Gly
322	Met	шe	Pne	PIO	гуу	GIII	1 Y 1	110	110	10					15	
323	1		_		5	m	mbs	Nan	Dha	Tle	Arσ	Ala	Va1	Arq	Gly	Arg
325	Ala	Thr	Val	Gln	ser	туг	THL	ASII	25	110	1119	1114		30	•	-
326				20				1	25	T 0.11	Dro	Tlo	λen		Ara	Phe
328	Leu	Thr	Val	Leu	Pro	Asn	Arg	Val	GTA	Leu	PIO	TIC	45	0.111		
			2 -					4()					40			
331	Ile	Leu	Val	Glu	Leu	Ser	Asn	His	Ala	GLu	ьeu	Ser	vai	T 11T	пец	ALG
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334	Leu	Asp	Val	Thr	Asn	Ala	Tyr	Val	Val	Gly	Tyr	Arg	Ala	GTA	ASII	Ser
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227	λla	ጥ፣ታተ	Phe	Phe	His	Pro	Asp	Asn	Gln	Glu	Asp	Ala	Glu	Ala	Ile	Thr
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338	** ·	т	nho	Thr	Aen	val	Gln	Asn	Arq	Tyr	Thr	Phe	Ala	Phe	Gly	Gly
				1 0 0					1117							
341			_	100	T 0.11	C111	C1n	T.eu	Ala	Glv	Asn	Leu	Arg	Glu	Asn	Ile
343	Asn	Tyr			Leu	GIU	GIII	120	niu	. 011			125			
344			115		_			120		7.1.	Tlo	Sar			Tvr	Tvr
346	Glu	Leu	ιĠly	Asn	Gly	Pro	Leu	GLU	GLU	. Ата	116	140	1124		-1-	Tyr
							1 4 5					T 4 0				
349	Tyr	Ser	Thr	Gly	Gly	Thr	Gln	Leu	Pro	Thr	: Leu	АІА	ALY	261	LIIC	Ile 160
352	Tle	CVS	: Ile	Gln	Met	. Ile	Ser	Glu	ιAla	Ala	ı Arg	Phe	GIn	туг	TIE	Glu
252					165)				1/	,				175	
252	C11	ر رواير رواير	ı Met	: Arg	Thr	Ara	Ile	Arq	y Tyr	Asr	a Arg	Arg	Ser	•		
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356	-01	0 0	י ספי													
359	< 2 1	LU > 5	DEQ J	D NC	,, , ,,											
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/083,336

DATE: 03/14/2002

TIME: 12:14:29

Input Set : A:\Ricin.app

Output Set: N:\CRF3\03142002\J083336.raw

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

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L:611 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

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A requires explomation of genetic source error sheet, item 11.

See Summary sheet, item 11.

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